

Fig. 1 (the prior art)

A cross-sectional diagram of a magnetic cell structure. The diagram shows a substrate with a p-type region (p-) and two n+ regions (S n+ and D n+). A gate layer (WL) is positioned over the p- region. A magnetic cell is formed on top of the gate layer, consisting of a magnetic layer (Magnetic Cell) and a conductive layer (BL). The magnetic cell is connected to the S n+ region via a contact (3e) and to the D n+ region via a contact (3f). The conductive layer (BL) is connected to the magnetic cell via a contact (3b). The gate layer (WL) is connected to the S n+ region via a contact (3c). The substrate is labeled 4, the p- region is 4a, the S n+ region is 4b, and the D n+ region is 4c. The magnetic cell is labeled 2, the conductive layer is 3a, the gate layer is 3d, the contact 3e is 3c, and the contact 3f is 3b. The magnetic layer is 5e, the conductive layer is 5d, and the gate layer is 5c.

**Fig. 3**

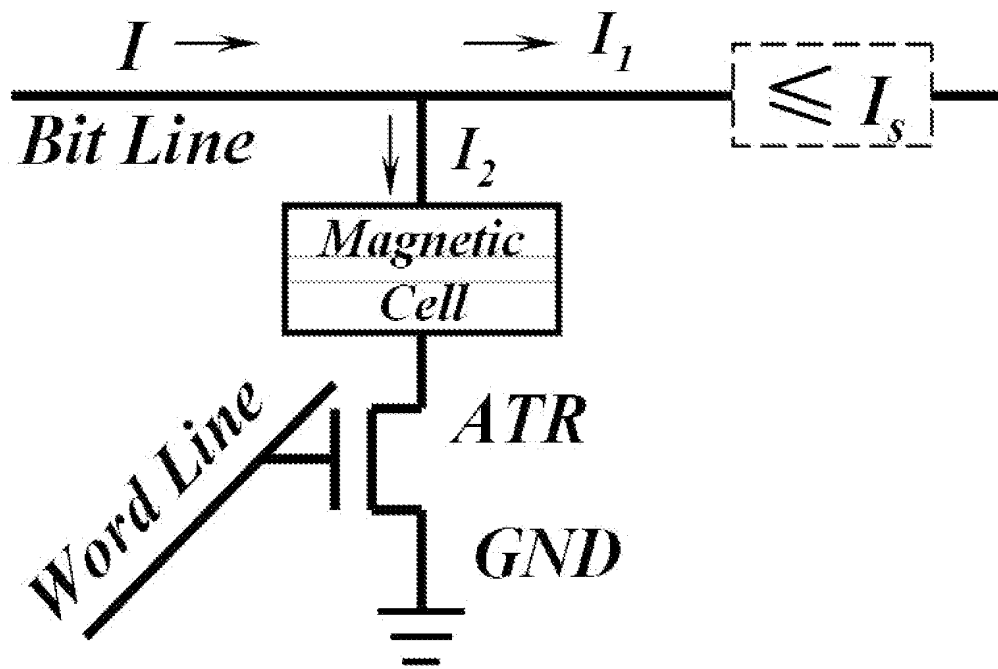


Fig. 4

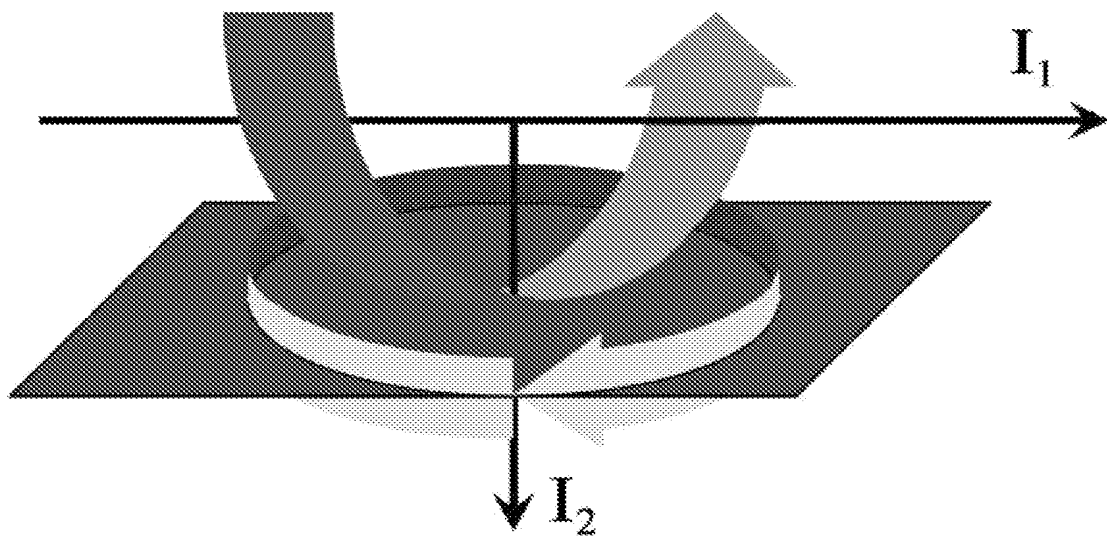
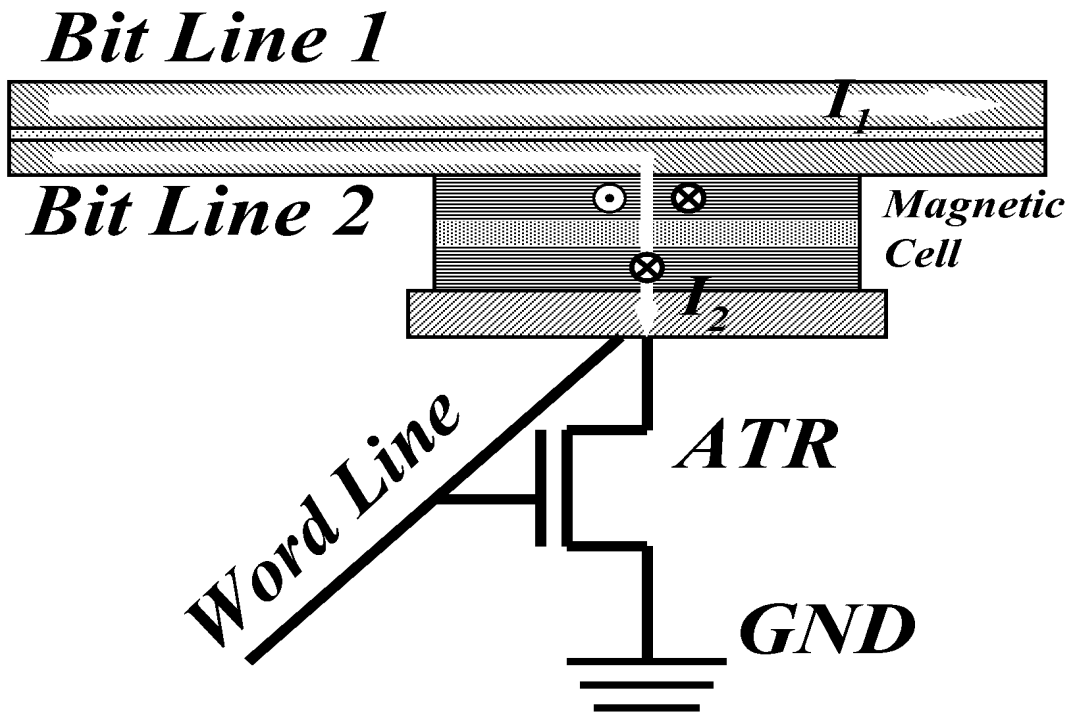
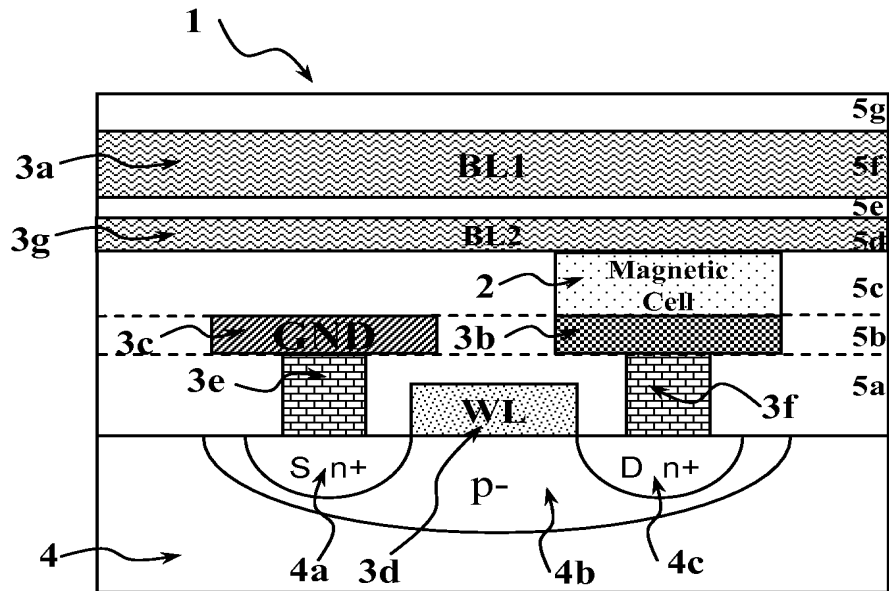


Fig. 5



**Fig. 6**



**Fig. 7**

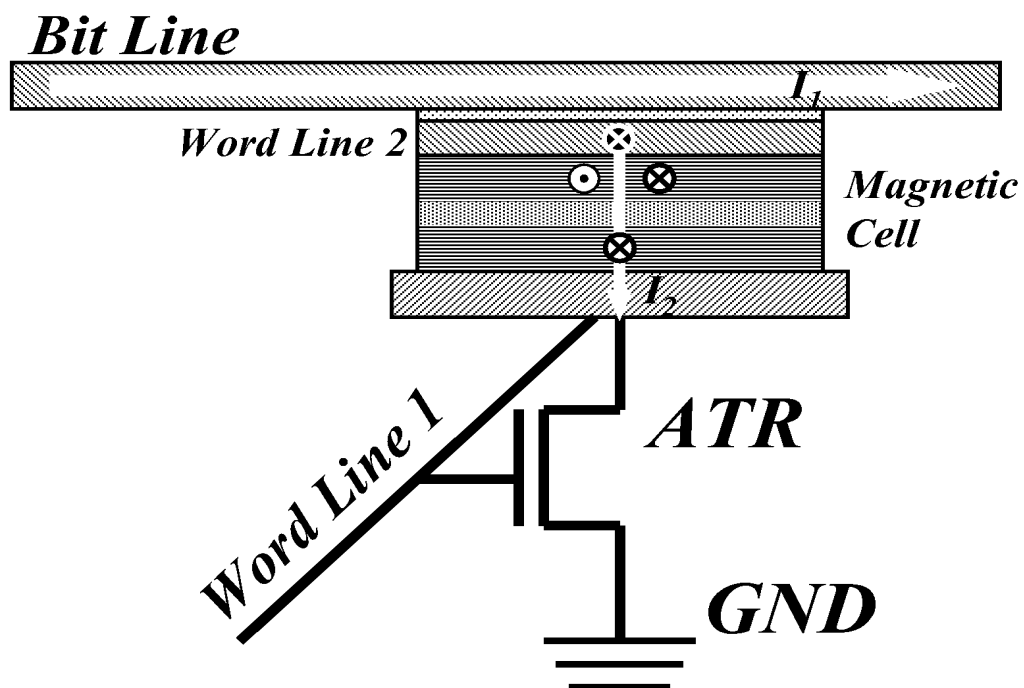


Fig. 8

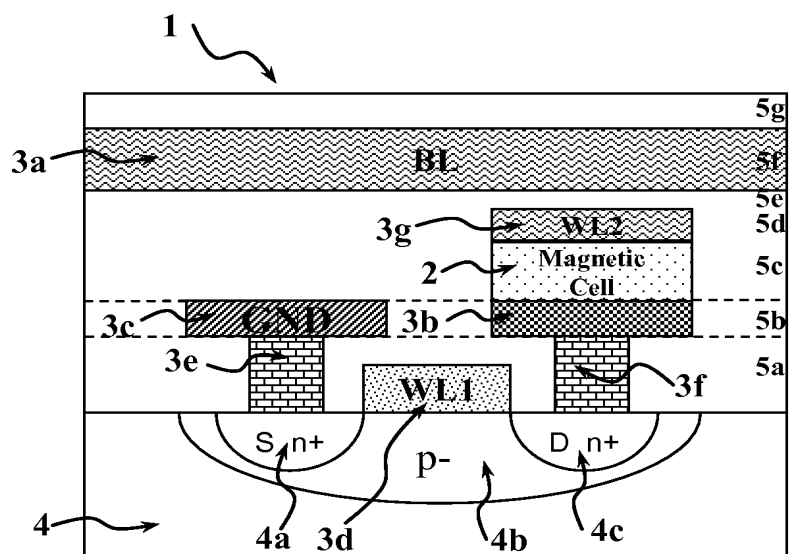


Fig. 9